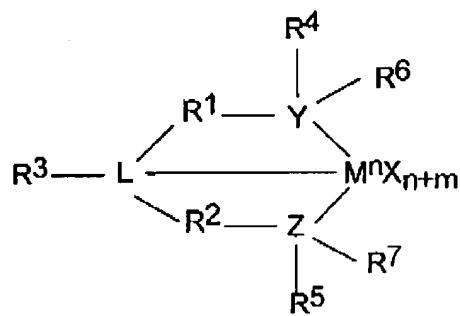


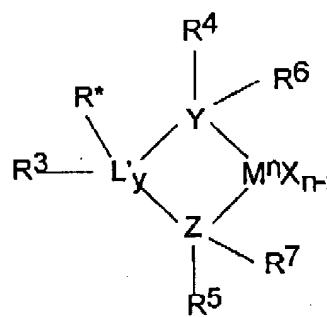
Application No. 10/634,474
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 Reply to Office Action Dated March 12, 2004

Amendments to the Abstract

Catalyst compositions and methods, useful in polymerization processes, utilizing at least two metal compounds are disclosed. At least one of the metal compounds is a Group 15 containing metal compound and the other metal compound is preferably a bulky ligand metallocene-type catalyst. The invention also discloses a new polyolefin, generally polyethylene, particularly a multimodal polymer and more specifically, a bimodal polymer, and its use in various end-use applications such as film, molding and pipe. The Group 15 containing metal compound is represented in one embodiment by the formulae:



or



wherein M is a Group 4, 5 or 6 metal;

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each X is independently a leaving group;
y is 0 or 1;
n is the oxidation state of M;
m is the formal charge of the ligand comprising the YZL or YZL' groups;
L is a Group 15 or 16 element;
L' is a Group 15 or 16 element or Group 14 containing group;
Y is a Group 15 element;
Z is a Group 15 element;
and the other groups are as defined herein.